

# PATENT COOPERATION TREATY

# PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference <b>JHB / 03463WO / JLH</b>	<b>FOR FURTHER ACTION</b> <small>see Form PCT/ISA/220 as well as, where applicable, Item 5 below.</small>	
International application No. <b>PCT/GB2004/004912</b>	International filing date (day/month/year) <b>22 / 11 / 2004</b>	(Earliest) Priority Date (day/month/year) <b>20 / 11 / 2003</b>
Applicant  <b>QUEEN MARY &amp; WESTFIELD COLLEGE</b>		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 5 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

**1. Basis of the report**

- a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
- ☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).
- b. ☐ With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

**2. ☒ Certain claims were found unsearchable (See Box II).**

**3. ☐ Unity of invention is lacking (see Box III).**

**4. With regard to the title,**

- ☒ the text is approved as submitted by the applicant.
- ☐ the text has been established by this Authority to read as follows:

**5. With regard to the abstract,**

☒ the text is approved as submitted by the applicant.

**a. the figure of the drawings to be published with the abstract is Figure No. \_\_\_\_\_**

- ☐ as suggested by the applicant.
- ☐ as selected by this Authority, because the applicant failed to suggest a figure.
- ☐ as selected by this Authority, because this figure better characterizes the invention.

**b. ☒ none of the figures is to be published with the abstract.**

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB2004/004912

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61K38/09 A61K38/39 A61P 15/08

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, BIOSIS, EMBASE, CHEM ABS Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 01/13932 A (KING'S COLLEGE LONDON; FRASER, LYNN, REPSIS) 1 March 2001 (2001-03-01)	1,3-10, 14-20, 23,24, 26,27
Y	page 6, line 18 - line 28 page 12, line 16 - line 25	1-20
X	WO 95/32725 A (QUEEN MARY AND WESTFIELD COLLEGE; VINSON, GAVIN, PAUL ) 7 December 1995 (1995-12-07) cited in the application claims 1,3	1,3-10, 14-20, 23,24, 26,27



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

## \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is used to establish the publication date of another

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

1 March 2005

15/03/2005

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International Application No  
PCT/GB2004/004912

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	VINSON G P ET AL: "ANGIOTENSIN II STIMULATES SPERM MOTILITY" REGULATORY PEPTIDES, ELSEVIER SCIENCE BV, NL, vol. 67, 1996, pages 131-135, XP000979550 ISSN: 0167-0115 page 133, column 2 - page 134, column 1 -----	1,3-10, 14-20, 23,24, 26,27
X	FRASER L R ET AL: "Calcitonin, angiotensin II and FPP significantly modulate mouse sperm function." MOLECULAR HUMAN REPRODUCTION. MAR 2001, vol. 7, no. 3, March 2001 (2001-03), pages 245-253, XP002319525 ISSN: 1360-9947 page 247, column 2 - page 248, column 1; table II -----	1,3-10, 14-20, 23,24, 26,27
X	WENNEMUTH G ET AL: "Influence of fibronectin on the motility of human spermatozoa" INTERNATIONAL JOURNAL OF ANDROLOGY, vol. 20, no. 1, 1997, pages 10-16, XP009044560 ISSN: 0105-6263 page 14, column 2 -----	11-13, 21,22,25
Y		1-20
X	US 5 389 519 A (BRONSON ET AL) 14 February 1995 (1995-02-14) example 10 -----	21,22,25
Y	FUSI F M ET AL: "Sperm surface fibronectin. Expression following capacitation." JOURNAL OF ANDROLOGY. 1992 JAN-FEB, vol. 13, no. 1, January 1992 (1992-01), pages 28-35, XP009044553 ISSN: 0196-3635 page 34 -----	1-20

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/GB2004/004912

## Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: —  
because they relate to subject matter not required to be searched by this Authority, namely:  
Although claims 1-10 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the composition.
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.  
☐ No protest accompanied the payment of additional search fees.

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB2004/004912

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0113932	A	01-03-2001	AU 6714800 A	19-03-2001
			CA 2381928 A1	01-03-2001
			EP 1212076 A2	12-06-2002
			WO 0113932 A2	01-03-2001
			JP 2003507429 T	25-02-2003
WO 9532725	A	07-12-1995	AU 2534595 A	21-12-1995
			EP 0760672 A1	12-03-1997
			WO 9532725 A1	07-12-1995
			JP 2001506225 T	15-05-2001
			US 6011015 A	04-01-2000
US 5389519	A	14-02-1995	US 5256539 A	26-10-1993